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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/751,718		01/05/2004	Siu Wing Or	MCHK/149/US	2247		
2543	7590	07/17/2006		EXAM	EXAMINER		
ALIX YAI		STAS LLP	BUDD, MARI	BUDD, MARK OSBORNE			
750 MAIN S SUITE 1400			ART UNIT	PAPER NUMBER			
HARTFORI	D, CT 0	6103	2834				
				DATE MAILED: 07/17/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

			tion No.	Applicant(s)				
			718	OR ET AL.				
	Office Action Summary	Examin	er	Art Unit				
		Mark Bu		2834				
Period fo	The MAILING DATE of this communication Reply	on appears on t	he cover sheet with the c	orrespondence add	lress			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR DEVER IS LONGER, FROM THE MAILI nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communica period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, b reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF T CFR 1.136(a). In no of tition. by period will apply and by statute, cause the apply and	THIS COMMUNICATION event, however, may a reply be time will expire SIX (6) MONTHS from opplication to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).				
Status								
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice u	☐ This action is allowance excep	ot for formal matters, pro		merits is			
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-18 is/are pending in the application of the above claim(s) is/are was claim(s) is/are allowed. Claim(s) 1-18 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	ithdrawn from c						
Applicati	on Papers							
10)	The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the other oath or declaration is objected to by	accepted or to the drawing(s) correction is requ	be held in abeyance. See ired if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFF	• •			
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) * e of References Cited (PTO-892) * e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/8 r No(s)/Mail Date 42304.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	152)			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18 are rejected under 35 USC 103 (a) as being on patentable Wright in view of Hansen and combined with Porzio. In figure 2 Wright shows a wire bonding apparatus having a wire bonding tool #23 at one end of and amplification horn #14 and has a mounting flange #15 at the other and of the horn. The device is driven by a generic ultrasonic transducer which may include a magnetostrictive driver. Hansen teaches a high power ultrasonic transducer can have a higher efficiency by using a prestressed magnetostrictive Terfenol-D material combined with a first field generator to provide a bias field and a second field generator to providing a magnetic drive field. Porzio (note figure 5 and column 5 lines 40-52) teaches a further enhanced output can be obtained by combining the Terfenol- D (rare earth based alloy) layers with samarium cobalt layers ((rare earth based alloy)) separated from one another by a layer of epoxy (passive all-America material). It has long been held that selection from among known, suitable materials is within the skill expected at the routineer. Thus, to select the specific well known magnetostrictive materials used by Porzio in the giant magnetostrictive arrangement of Hhansen and place it into the generic system of Wright in order to provide a predictable increase in power and efficiency would have been obvious to one of ordinary skill in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Budd whose telephone number is 571-272-2019. The examiner can normally be reached on Mmonday-Thursday from 6 a.m. to 4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Budd Primary Examiner Art Unit 2834